

P.B.5818 - Patentlaan 2 2280 HV Rijswijk (ZH) +31 70 340 2040 31651 epo nl +31 70 340 3016

Europäisches Patentamt

Eingangs-

European Pat nt Office

Receiving Section

Offic europé n des brev ts

Section de Dépôt

Strych, Werner Maximilian Josef, Dr. Hansmann & Vogeser,

Patent- und Rechtsanwälte, Albert-Rosshaupter-Strasse 65 NGEGANGE

81369 München ALLEMAGNE

MÜNCHEN

1 118 780

i 0. Feb. 2003

PATENT - UND RECHTSANWÄLTE HANSMANN VOGESER BOECKER ALBE Datum/Date 06-02-2003

Zeichen/Ref./Réf.

52964

Anmeldung Nr./Application No./Demande no./Patent Nr./Patent No./Brevet no.

99942549.9-2406- PCT/US9919902

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

The Research Foundation of the State University of New York

VF1 6,3.+

PROCEEDING FURTHER WITH THE EUROPEAN PATENT APPLICATION PURSUANT TO ARTICLE 96(1) AND RULE 51(1) EPC

A supplementary European search report has been drawn up concerning the above European patent application (publication no. 1121379).

Since you have filed a request for examination prior to the transmission of the supplementary European search report, you are hereby invited to indicate within

TWO MONTHS

of notification of this invitation whether you desire to proceed further with the European patent application.

If you do not indicate in due time that you desire to proceed further with the Europeen patent application, it will be deemed to be withdrawn (Art. 96(3) EPC).

If you wish you may comment on the supplementary European search report and amend, where appropriate, the description, claims and drawings (Rule 51(1) EPC).

RECEIVING SECTION

REGISTERED LETTER

EPO Form 1224 04.85

7001007 29/01/03

005

99942549.9 DMEX MO2



EPO Form 1507 02.93

P.B.5818 - Patentlaan 2 2280 HV Rijswijk (ZH) 3 + 31 70 340 2040 TX 31651 epo nl FAX + 31 70 340 3016

Europäisches Patentamt

Zweigstelle in Den Haag Recherchenabteilung

European Patent Office

Branch at The Hague Search division

Office européen des brevets

Département à La Haye Division de la recherche

Strych, Werner Maximilian Josef, Dr. Hansmann & Vogeser, Patent- und Rechtsanwälte, Albert-Rosshaupter-Strasse 65 81369 München ALLEMAGNE

EINGEGANGEN
MÜNCHEN

-3. FEB. 2003

-3. Feb. 2003

MATENT- UND RECHTSANWÄLTE HANSMANN VOGESER BOECKER ALBER

Datum/Date

_		ا_	3	1. 01. 03
Zeichen/Ref./Réf. 52964	i	Anmeldung Nr./Application No./Demar 99942549.9	nde n°./Patent Nr./Patent N =	lo./Brevet n°.
	deur/Patentinhaber/Proprietor/Titulaire search Foundation of	the State University	of	
		COMMUNIC	ATION	
The Europe	ean Patent Office herewith transmit	es .		•
. 🗆	the European search report			
. 🗆	the declaration under Rule 45 EF	PC		
. 🗖	the partial European search repo	ort under Rule 45 EPC		
ŽI.		arch report concerning the internatic European patent application. Copie	• •	• •
The following	ng specifications given by the applic	cant have been approved by the Se	earch Division :	
	Abstract	Title] Figure
	The abstract was modified by the	Search Division and the definitive to	ext is attached to this co	mmunication.
	The following figure will be publish the invention than the one indicate	ned with the abstract, since the Sea and by the applicant.	rch Division considers th	nat it better characterises
	Figure:		·	
Д F	Additional copy(copies) of the doc	uments cited in the European searc	ch report.	GEORGE PATENTAL ELEGISTICS OF THE REAL PROPERTY OF THE PARTY OF THE PA
If applicable	under Article 10 Rules relating to f ceiving Section on the refund of the	ees, a separate communication		STATE OF THE FEMOLE FEMOLE



CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
·

LACK OF UNITY OF INVENTION SHEET B

Application Number EP 99 94 2549

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1,4-7,10-14,21,24-27,32,35-38 (totally), 43-57 (partially)

alpha subunit of eag-like potassium channel elk1 (SEQ ID NO:2)

2. Claims: 2,8,15-17,22,28,30,33,39,41 (totally), 43-57 (partially)

alpha subunit of eag-like potassium channel elk2 (SEQ ID N0:3)

3. Claims: 3,9,18-20,23,29,31,34,40,42 (totally), 43-57 (partially)

alpha subunit of eag-like potassium channel eag (SEQ ID NO:4)



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 99 94 2549

	DOCUMENTS CONSID	ERED TO BE RELEVANT	,	
Category	Citation of document with of relevant pas	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
D,Y	channel genes relatand mammals"	NATIONAL ACADEMY OF ATIONAL ACADEMY OF N, US, 1-04-12), pages 2026	1,4-7, 10-14, 21, 24-27, 32, 35-38, 43-57	C07K14/00 C07K14/435 C12N5/16 C12N15/12 C12N15/63 G01N33/53 G01N33/566
	EAG-LIKE POTASSIUM NEUROBLASTOMA CELLS JOURNAL OF PHYSIOLO vol. PART 1, no. 50	S" DGY, XX, XX, D8, -04-01), pages 49-56,	1,4-7, 10-14, 21, 24-27, 32, 35-38, 43-57	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
	potassium channel g	sympathetic ganglia" GY,, 3, 1998-09-15), pages 9	1,4-7, 10-14, 21, 24-27, 32, 35-38, 43-57	C07K
	The supplementary search repo set of claims valid and available	rt has been based on the last at the start of the search.	·	
	Place of search	Date of completion of the search		Examiner
	MUNICH	10 January 2003	Sch	wachtgen, J-L
X : partic Y : partic docui A : techr O : non-	TEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot ment of the same category nological background written disclosure nediate document	E : earlier patent doct after the filing date	ument, but publis the application other reasons	shed on, or

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 99 94 2549

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with i of relevant pas	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X	VOLORIO S ET AL: 'FORTY-EIGHT HUMAN ISIMILAR TO DROSOPHIDNA SEQUENCE, NEW YOO'. 9, no. 5/6, 1900. 5	LA MUTANT PROTEIN" 'ORK, NY, US,	2,8, 15-17, 22,28, 30,33, 39,41, 43-57	
P,X	expression of rat e channel genes."	ther-à-go-go-like K+ IOLOGY. ENGLAND 15 DEC 998-12-15), pages	2,8, 15-17, 22,28, 30,33, 39,41, 43-57	TECHNICAL FIELDS
X .	ETHER-A-GO-GO CHANN PHOTORECEPTORS REVE A K+ CURRENT IN ROD JOURNAL OF GENERAL INSTITUTE FOR MEDIC	ALS SIMILARITY TO IKX, INNERSEGMENTS" PHYSIOLOGY, ROCKEFELLER AL RESEARCH,, US, ril 1998 (1998-04), 0992664	3,9, 18-20, 23,29, 31,34, 40,42	TECHNICAL FIELDS SEARCHED (Int.CI.7)
		t * 	1-57	
	Place of search	Date of completion of the search		Examiner
	MUNICH	10 January 2003	Schv	vachtgen, J-L
X : parti Y : parti docu A : techr O : non-	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with anot ment of the same category nological background written disclosure mediate document	T: theory or principle E: earlier patent door after the filing date D: document cited in L: document cited for	underlying the ir ument, but publis the application r other reasons	vention hed on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 94 2549

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-01-2003

		Patent document cited in search rep	t ort	Publication date		Patent fam member(nily s)	Publication date
	WO	9613520	A	09-05-1996	US AU EP JP WO	5559026 4146996 0789712 10508473 9613520	A A1 T	24-09-1996 23-05-1996 20-08-1997 25-08-1998 09-05-1996
,								
1								
		1		•				
			٠		÷ .			
								•
					•	•		
						į		
						·		
,								
		·			•			•
		•						
				Official Journal of the E				